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Abstract

An ophthalmological examination and/or treatment station includes , in the form of modules, a lighting device, an observation device, an optical measuring system, an evaluation unit, and a patient module. The patient module can be optically linked with the locally remote lighting device and the measuring system in a detachable manner. The measuring system forming part of the comprises an optical system with a short-coherent radiation source of the Michelson interferometer-type. An optically transparent and/or diffusive, reflecting object can be introduced into the measuring arm of the optical system and the reference arm thereof has a wavelength variation unit for modifying the runtime and at last two reflectors which produce a runtime difference. The measuring system is used to measure optical properties of at least two spaced-apart areas of the transparent and/or diffusive object at a measuring time in the subsecond range.